

The schematic diagram illustrates a pneumatic control system for a valve assembly. The system is powered by an 'Air Supply' (28) which feeds into a control valve (21). The control valve has two outputs: one leading to a solenoid valve (22) and another leading to a pressure-reducing valve (30). The solenoid valve (22) is controlled by an 'Input' (35) and its output (36) is connected to a 3/2-way directional control valve (23). This valve (23) controls the main valve assembly (25), which has an 'In' port (25) and an 'Out' port (39). The main valve assembly (25) includes a valve body (52) with internal components (53, 54, 55) and a spring (41). The pressure-reducing valve (30) is controlled by a feedback signal (34) and its output (31) is connected to a pressure sensor (32) which provides feedback to the control valve (21). The system also includes a check valve (33) and a pressure indicator (34). Various other components and connections are labeled with numbers 20 through 55.

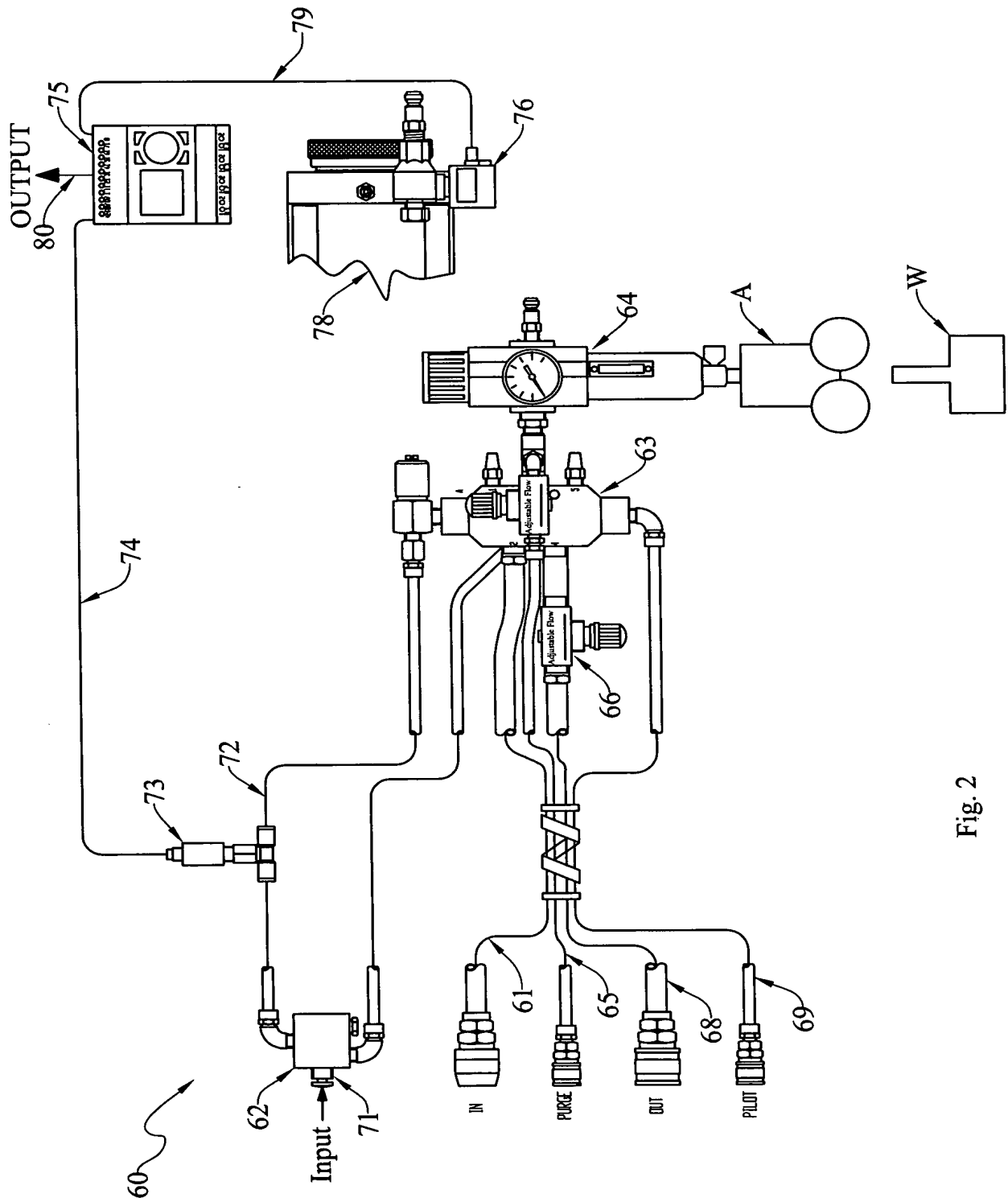


Fig. 2